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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/899,265	07/06/2001	Nevein T. Sultan	9-13528-170US	3921	
75	90 07/27/2005		EXAMINER		
Swabey Ogilvy Renault Suite 1600 1981 McGill College Avenue			REFAI, RAMSEY		
			ART UNIT	PAPER NUMBER	
Montreal, QC H3A 2Y3			2152		
CANADA			DATE MAILED: 07/27/2005	7/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

4							
	Application No.	Applicant(s)					
	09/899,265	SULTAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ramsey Refai	2152					
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communi - If the period for reply specified above is less than thirty (30) d - If NO period for reply is specified above, the maximum statut - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thiory period will apply and will expire SIX (6) MOI, by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timety. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	cation.				
Status							
1) Responsive to communication(s) filed							
/ <u></u>	,—						
* * *	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	under Ex parte Quayle, 1955 O.L	7. 11, 433 O.G. 213.					
Disposition of Claims							
	Claim(s) <u>1-31</u> is/are pending in the application.						
4a) Of the above claim(s) <u>9,16 and 26</u> is/are withdrawn from consideration. 5) Claim(s) is/are allowed.							
· <u> </u>	5)						
7) Claim(s) is/are objected to.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the E	Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to b	y the Examiner. Note the attache	d Office Action or form PTO-15	2.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of	ocuments have been received. Ocuments have been received in A	Application No	e				
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)					
 2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 	0-948) Paper No	(s)/Mail Date Informal Patent Application (PTO-152)					
S. Patent and Trademark Office		· · · · · · · · · · · · · · · · · · ·					

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DETAILED ACTION

Response to Amendment

1. Responsive to Request for Continued Examination (RCE) received on June 28, 2005.

Independent claims 1, 12, and 25 have been amended. Claims 9, 16, and 26 have been canceled. Claims 1-8, 10-15, 17-25, and 27-31 remain pending examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. <u>Claims 1-6, 10, 12-15, 17-22, 25, and 28-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Tappan (U.S. Patent No. 6,473,421).</u>
- As per claim 1, Tappan teaches a method comprising steps of:
 asserting a route tag in respect of a link state advertisement (LSA) message (column 7, lines 14 67 and column 5, lines 5-15); and

controlling propagation of the LSA (column 7, lines 14 – 67 and column 5, lines 5-15) using a forwarding policy having a match criteria corresponding to the asserted route tag wherein the forwarding policy is implemented on a per-router basis, such that different routers of the data network can have respective different forwarding policies (column 2, lines 4-49).

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5. As per claim 2, Tappan teaches the data network is an Open Shortest Path first (OSPF) network (abstract).

- 6. As per claim 3, Tappan teaches a route tag comprises one of: an internal route tag associated with an address located within an autonomous system of the data network; and an external route tag associated with an address located outside the autonomous system (Figure 3).
- 7. As per claim 4, Tappan teaches the step of asserting a route tag comprises steps of: setting a route tag value respecting the LSA; and inserting the route tag value into a predetermined field of the LSA (column 7, lines 14 67 and column 5, lines 5-15).
- 8. As per claim 5, Tappan teaches wherein the route tag value is set by a policy having a match criteria corresponding to a predetermined attribute of the LSA (column 1, line 40 column 2, lines 50 and column 6, lines 5-50).
- 9. As per claim 6, Tappan teaches wherein the predetermined attribute comprises any one or more of: a source address; a source area; a destination address; and a destination area (column 2, lines 3 50 and Figure 3).

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10. As per claim 10, Tappan teaches the forwarding policy corresponds to one of: a pass decision, in which the LSA is forwarded to a downstream link; and a discard decision, in which the LSA is discarded without forwarding (column 1, lines 41-47).

- 11. As per claim 14, Tappan teaches an autonomous system border router, and an area border router (abstract).
- 12. As per claims 12-13, 15, 17-22, 25, 28, and 29, these claims contain similar limitations as claims 1-6, and 9-10 above, therefore are rejected under the same rationale.

Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 7-8, 23-24, and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tappan (U.S. Patent No. 6,473,421) as per claim 1 above, in view of AAPA (Applicant Admitted Prior Art).

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15. As per claim 7, Tappan teaches the step of inserting the route tag comprises a step of inserting the route tag value into an external route tag field of the LSA (column 5, lines 5 - 15).

- 16. Tappan fails to teach the use of Type-5 LSA.
- 17. However, AAPA teaches the use of Type-5 LSA (paragraph [0007]). It would have been obvious to one of the ordinary skill in the art at the time of the invention to combine the teachings of Tappan and AAPA because AAPA use of Type-5 LSA in Tappan's system would allow for advertisements to describe routes to destinations external to the Autonomous System.
- 18. As per claim 8, Tappan teaches the step of inserting the route tag comprises a step of inserting the route tag value into an internal route tag field (column 1, lines, 40-56 and column 2, lines 10-50).
- 19. Tappan fails to teach the use of Type-3 LSA.
- 20. However, AAPA teaches the use of Type-3 LSA (paragraph [0008]). It would have been obvious to one of the ordinary skill in the art at the time of the invention to combine the teachings of Tappan and AAPA because AAPA use of Type-3 LSA in Tappan's system would allow advertisements to describe routes to networks.
- 21. As per claims 23-24 and 30-31, these claims contain similar limitations as claims 7-8 above, therefore are rejected under the same rationale.

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22. Claims 11, 18, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Tappan (U.S. Patent No. 6,473,421) as per claim 1 above, in view of AAPA (Applicant Admitted

Prior Art) and in further view of Soloway et al (U.S. Patent No. 5,265,092).

- As per claim 11, Tappan teaches the use LSA (abstract) and a forwarding table (policy) (column 2, lines 10-50).
- 24. Tappan fails to teach forwarding table-using information contained in the LSA as either one of: an inclusion route; and an exclusion route.
- 25. However AAPA teaches a forwarding table that contains inclusion routes (paragraph [0010]). AAPA fails to teach the use of exclusion routes in forwarding tables.
- 26. However, Soloway et al teaches using exclusion routes in forwarding tables (column 6, lines 35-60; when the switch detects, via LSP (link state packet), that the route/link is changed/down/affected, it stores the changed/down/affected route/link information in the forwarded table). It would have been obvious to one of the ordinary skill in the art at the time of the invention to combine the teachings of Tappan, AAPA, and Soloway et al because AAPA's use of inclusion routes in forwarding tables and Soloway et al's use of exclusion routes in forwarding tables in Tappan's system would provide for a way to control traffic flow within networks by using a forwarding policy that contains inclusion and exclusion routes which allow an ASBR to discard or pass selected packets according to these routes.
- 27. As per claims 18 and 27, these claims contain similar limitations as claim 11 above, therefore are rejected under the same rationale.

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Response to Arguments

- 28. Applicant's arguments filed have been fully considered but they are not persuasive.
 - In the remarks, the Applicant argues in substance that Tappan fails to teach or suggest that the forwarding policy is implemented on a per-router basis such that each router can have a respective different forwarding policy.
 - The Examiner respectfully disagrees because Tappan does teach that routers have different forwarding tables. When a router receives an IP datagram, the router searches its forwarding table for a match. When it finds a match, it routes the packet accordingly. (see column 2, lines 4-50).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramsey Refai whose telephone number is (571) 272-3975. The examiner can normally be reached on M-F 8:30 - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ramsey Refai Examiner Art Unit 2152

RR July 21, 2005

> JOHN FOLLANSBEE SUPERVISORY PATENT EXAMINER (TECHNOLOGY CENTER 2100